## IN THE UNIT TES PATENT AND TRADEMARK OFFICE

In re application of

Masato MORI et al.

Mail Stop: PCT

Serial No. 10/587,280

Attorney Docket No. 2006 1203A

Filed July 25, 2006

CIRCUIT BOARD AND METHOD FOR MOUNTING CHIP COMPONENT [Corresponding to PCT/JP2005/000890 Filed January 25, 2005]

# SUBMISSION OF ENGLISH VERSIONS OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY AND WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith for consideration by the Examiner are:

- 1) An English version of the International Preliminary Report on Patentability; and
- 2) An English version of the Written Opinion of the International Searching Authority.

Respectfully submitted,

Masato MORI et al.

By

Michael S. Huppert Registration No. 40,268 Attorney for Applicants

MSH/kjf Washington, D.C. 20006-1021 Telephone (202) 721-8200 Facsimile (202) 721-8250 October 23, 2006



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NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

#### From the INTERNATIONAL BUREAU

To

KAWAMIYA, Osamu Aoyama & Partners, IMP Building 3-7, Shiromi 1-chome Chuo-ku, Osaka-shi Osaka 5400001 JAPON

Date of mailing (day/month/year) 31 August 2006 (31.08.2006)						
Applicant's or agent's file reference 664888	IMPORTANT NOTIFICATION					
International application No. PCT/JP2005/000890	International filing date (day/month/year) 25 January 2005 (25.01.2005)					
Applicant MATSUSHITA ELECTRIC I	Applicant  MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. et al					
1. Transmittal of the translation to the applicant.						
The International Bureau transmits herewith a copy of the patentability (Chapter I).	e English translation of the international preliminary report on					
The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).						
2. Transmittal of the copy of the translation to the designated or elected Offices.						
The International Bureau notifies the applicant that copies of that Offices requiring such translation:	translation have been transmitted to the following designated or elected					
None						
The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:						
AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW						
3. Reminder regarding translation into (one of) the official langua	ge(s) of the elected Office(s).					
The applicant is reminded that, where a translation of the internation must contain a translation of any annexes to the international prelimination.	onal application must be furnished to an elected Office, that translation tinary report on patentability (Chapter II).					
It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.						

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Masashi Honda

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#### PATENT COOPERATION TREATY

## **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 664888	FOR FURTHER ACTION	Sec item 4 below		
International application No. PCT/JP2005/000890	International filing date (day/month/year) 25 January 2005 (25.01.2005)	Priority date (day/month/year) 27 January 2004 (27.01.2004)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.				

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	This report contains indications	relating to the following items:			
	Box No. I	Basis of the report			
	Box No. II	Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the international application			
4.	The International Bureau will conot, except where the applicant rdate (Rule 44bis .2).	ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority			

Date of issuance of this report 22 August 2006 (22.08.2006) Authorized officer The International Bureau of WIPO 34, chemin des Colombettes Masashi Honda 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70 e-mail: pt08@wipo.int

Form PCT/IB/373 (January 2004)

#### PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION 664888 See paragraph 2 below Priority date (day/month/year) International application No. International filing date (day/month/year) PCT/JP2005/000890 25.01.2005 27.01.2004 International Patent Classification (IPC) or both national classification and IPC Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. This opinion contains indications relating to the following items: Box No. 1 Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability: citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer Facsimile No. Telephone No.

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/000890

Box	No. I	Basis of this opinion
I.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was, unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language.  which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed attion, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	tional comments:

#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/000890

Box		soned statement under Ri tions and explanations su	ulc 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;		
1.	Statement	<u> </u>			
	Novelty (N)	Claims	1-18	ÆS	
		Claims		Ю	
	Inventive step	(IS)	,	ES	
		(13) Claims Claims	1 10	Ю	
	Industrial appl	icability (IA) Claims	1-18	ES	
		Claims	N	10	
2.	Citations and expl	anations:		_	
	Document 1:	IP 63-60593 A (M	litsubishi Electric Corp.), 16 March, 1988 (16.03.88), full text		
		•	•		
	Document 2:	JP, 2003-218150, A	(Fujitsu Media Devices Ltd.), 31 July, 2003 (31.07.88), Fig. 6		
	Document 3:	JP, 10-84011, A (H	itachi, Ltd.), 31 March, 1998 (31.03.98), paragraph [0018]		
	Document 4: JP, 8-228066, A (Kokusai Electric Co., Ltd.), 3 September, 1996 (03.09.96), paragraph [0026]				
	Document 5:	JP, 2002-57434, A	(Murata Mfg. Co., Ltd.), 22 February, 2002 (22.02.02), abstract		
	Document 6: full text	JP, 1-191491, A (M	latsushita Electric Industrial Co., Ltd.), 1 August, 1989 (01.08.89)	).	
	documents 1-	6 cited in the ISR.	claims 1-18 do not appear to involve an inventive step in view of the basic technical idea of superposing a chip component on top or	f	
	another chip				
			hat components are cross-disposed; hat a chip component is reinforced by a resin and is disposed in a		
	recess;				
		ument 4 or 5 describ	pes that a chip component is bound by heating a conductive binding	19	
	The Wh	numerical limitatio	bes an auxiliary substrate. Ins described in claim 2 and 14 are mere matter of design variation the process described in claim 8 is merely to apply a general way of a.		